

Chromium

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Name: Chromium

Symbol: Cr

Atomic number: 24

Atomic mass: 51.9961

Electron shell structure: 2, 8, 13, 1

Discoverer: Louis Vauquelin

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24

Cr

Chromium

51.9961

2
8
13
1

Cr

24

51.996



Chromium

Chromium

Atomic Weight 51.9961

Density 7.14 g/cm³

Melting Point 1907 °C

Boiling Point 2671 °C

Full technical data

Many shiny things are chrome-plated; these chips show the result if you keep plating until a thick slab is built up. This process, called electrowinning, is how high-purity chromium is obtained from solution.

Scroll down to see examples of Chromium.

<http://www.worldbookonline.com/student/extmedia?id=ar392080&em=lr005781>

November 18, 2009

<http://www.periodictable.com/Elements/024/index.html>

November 19, 2009

Chromium

Group	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Period																			
1	1 H																	2 He	
2	3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne	
3	11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	
5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	
6	55 Cs	56 Ba	*	71 Lu	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn
7	87 Fr	88 Ra	**	103 Lr	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Uub	113 Uut	114 Uuq	115 Uup	116 Uuh	117 Uus	118 Uuo
*Lanthanoids			*	57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb		

http://www.webelements.com/compounds/chromium/trichromium_tetraoxide.html

November
19, 2009



<http://www.webelements.com/chromium/>

November 19, 2009

Screenoast video

<http://www.screenoaster.com/watch/stUEJSRkNIR1xXR1lfUlleV1FW/chromium2>

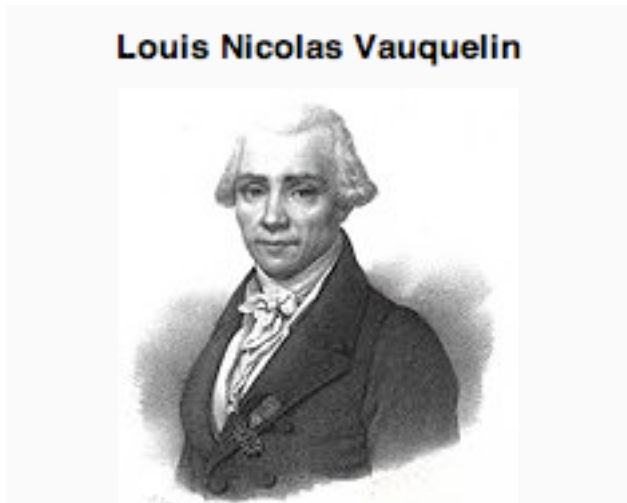
CHRO-MI-UM



What comes to mind when you think about chromium? Chrome! Shiny, reflective car bumpers and hubcaps. You'll also find it in stainless steel and even small amounts are found in your body as one of the trace elements.

Chromium is a useful metal that was discovered in 1797 by Vaquelin. While you think of the highly polished-chrome electroplating, purified chromium metal is grayish color, but still very shiny and lustrous. Another trait that makes it great for electroplating is that it is very resistant to corrosion. It won't rust easily.

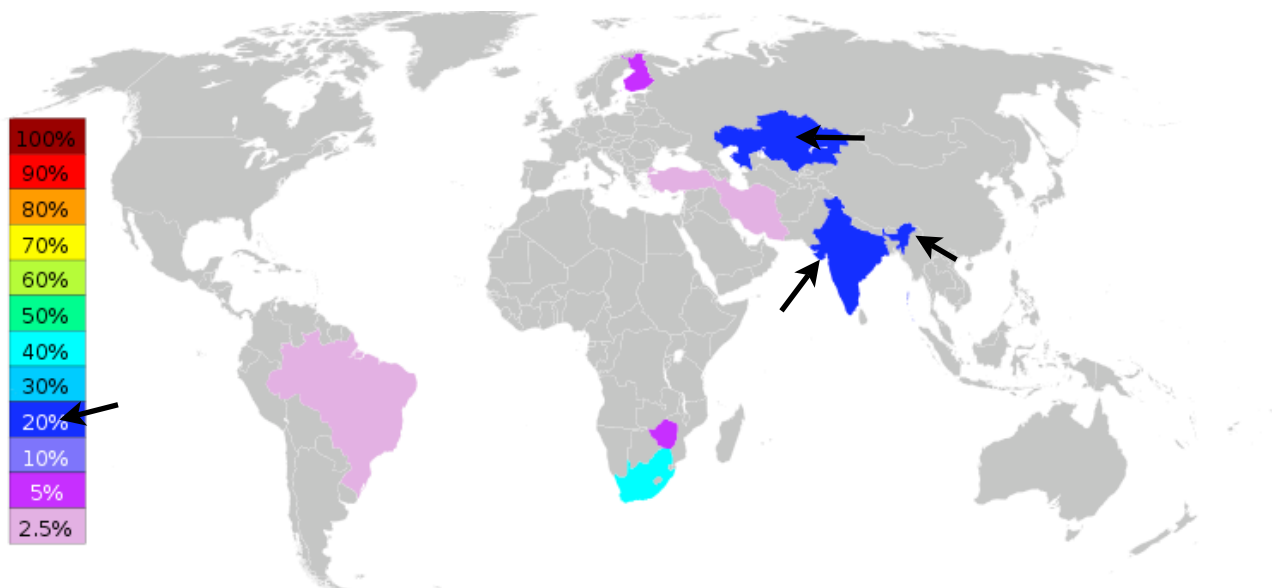
Chromium is number twenty-four on the periodic table and located in the same column with molybdenum and tungsten.



Louis Nicolas Vauquelin, a French chemist, discovered a compound of chromium and oxygen in 1797. He prepared the free chromium metal the following year.

<http://www.worldbookonline.com/student/article?id=ar113960&st=chromium>

http://en.wikipedia.org/wiki/Louis_Nicolas_Vauquelin<http://en.wikipedia.org/wiki/>



[Louis Nicolas Vauquelin](http://en.wikipedia.org/wiki/File:World_Chromium_Production_2002.svg)

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fact this is where Chromium

